



FM Approvals  
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Member of the FM Global Group

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### ***FHG65abcde, Modulator***

XP/II/1/ABCD/T6 ,  $-40^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ ; T5,  $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ ;  
DIP/II, III/EFG/ T6  $-40^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ ; T5,  $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ ;  
XP/II/1/IIIC T6,  $-40^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ ; T5,  $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ ; Type 4, 4X; Type 6, IP65, IP67

- a = Approval S.
- b = Power Supply 1.
- c = Housing A.
- d = Cable entry D.
- e = Mounting Device 1, or 3.

### ***FHG65abcde, Modulator***

XP/II/1/ABCD/T6 ,  $-40^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ ; T5,  $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ ; T4A,  $-40^{\circ}\text{C} \leq T_a \leq 75^{\circ}\text{C}$ ;  
DIP/II, III/EFG/ T6  $-40^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ ; T5,  $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ ; T4A,  $-40^{\circ}\text{C} \leq T_a \leq 75^{\circ}\text{C}$ ;  
XP/II/1/IIIC T6,  $-40^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ ; T5,  $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ ; T4,  $-40^{\circ}\text{C} \leq T_a \leq 75^{\circ}\text{C}$ ; Type 4, 4X; Type 6, IP65, IP67

- a = Approval S.
- b = Power Supply 1.
- c = Housing A.
- d = Cable entry D.
- e = Mounting Device/Watercooling Tube 2 or 4.

### Equipment Ratings:

The FHG65 Modulator is FM Approved as as Explosionproof for Class I, Division 1, Groups A, B, C and D; Flameproof for Class I, Zone 1, AEx d Group IIC; and Dust-Ignitionproof for Class II,III Division 1, Groups E, F and G for hazardous (classified) locations, indoors and outdoors (Type 4 4X, Type 6, IP65 and IP67).

### FM Approved for:

Endress + Hauser GmbH. + Co. KG  
Maulburg, Germany, 79689



This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3615	2006
Class 3810	2005
ANSI/ISA-12.00.01	2002
ANSI/ISA-12.22.01	2002
ANSI/NEMA250	1991
IEC60529	2002

Original Project ID: 3032844

Approval Granted: *September 24, 2008*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

*J. E. Marquedant*  
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J. E. Marquedant  
Group Manager, Electrical

*24 September 2008*  
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Date